

Technology Spider

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EDUCATION

University of Richmond (UR), Richmond, VA

May 2020

Bachelor of Science, Computer Science

Double Major in Mathematics

GPA: 3.65

Relevant Courses: Data Structures, Software Engineering, Computer Security, Coding Theory, Algorithms, Simulation

Honors: Presidential Scholar (Full academic scholarship), Dean's List (Fall 2016-Spring 2019)

COMPUTER SKILLS

Languages: *Proficient:* Java, C/C++, R, HTML, CSS

Working Knowledge: JavaScript, Ruby, UNIX Scripting, SQL, MIPS Assembly

Skills: Machine Learning, Web and Android Development, Data Visualization

Work: <http://techspider360.github.io>

WORK AND LEADERSHIP EXPERIENCE

Research Fellow, *Department of Computer Science*, UR

August 2018-Present

- Interface R and Java to create a Machine Learning library with Neural Network, Support Vector Machine and Naïve Bayesian capabilities, used for classifying malware samples
- Implemented a real-time malicious JavaScript detection system using HTMLUnit and Machine Learning.
- Analyzed 1200 Android malware samples, belonging to 30 different malware families
- Developed a Dalvik static analysis based Android malware detection engine with a 72% detection rate

Software Developer, *Code for America*, Richmond, VA

August 2018-Present

- Develop websites pro-bono for more than 50 small scale startups and companies
- Assisted in the user interface development of a carpooling app, Savaree, and a public service app, Messiah
- Optimized ride-matching algorithm of the carpooling app to achieve an 85% speedup

Software Engineer, *The Collegian*, UR

September 2017-May 2019

- Redesigned the Collegian website leading to a 21% increase in viewership
- Trained 30 employees to use the Gryphon CMS to publish stories and blogs
- Integrated Google AdSense and Google Analytics into the Collegian website
- Created Android and iOS Collegian Mobile applications

Resident Assistant, *Richmond College*, UR

August 2017-May 2019

- Acted as a mentor and leader for 30 students in Dennis Hall and Gray Court
- Built community and enforced policy on my floor by establishing meaningful relationships with residents
- Organized programs with other RAs to "educate, challenge and pursue" the residents

AWARDS

2nd place, *International Mathematics Olympiad, Romania*

- Represented my country in a Mathematics Olympiad and secured 2nd place among 25 countries.

Gold and Silver Medalist, *IKMC (International Kangaroo Mathematics Competition)*

- Secured first and second place in a national Mathematics Competition among 42,000 participants.